

### ABSTRACT OF THE DISCLOSURE

Remotely sensing a target may include generating a first beam of optical radiation that is modulated at a first frequency and polarized at a first polarization. A second beam of optical radiation that is modulated at a second frequency and polarized at a second polarization may also be generated. The first and second beams of optical radiation may be transmitted to the target. Radiation at the first polarization and radiation at the second polarization may be detected from the target using a phase sensitive technique and the first and second frequencies.